## INTERNATIONAL SEARCH REPORT

Inter anal Application No PCT/US 00/03521

A.	CLA	SSIFIC	ATION	OF	SUBJECT	MATTER
TF	7	7	C111	117	7/በበ	

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C11D

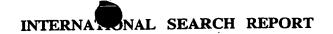
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 514 264 A (PROCTER & GAMBLE) 14 June 1978 (1978-06-14) page 2, line 63 - line 72 page 4, line 18 - line 43; claims; examples	1,5-7,9
X	EP 0 635 569 A (UNILEVER NV; UNILEVER PLC (GB)) 25 January 1995 (1995-01-25) page 3, line 38 -page 5, line 10; claims 1-8; examples -/	1,2,4-7,

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
8 June 2000	30/06/2000
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk	Authorized officer
NL – 2200 NY miswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Grittern, A

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Inter onal Application No
PCT/US 00/03521

		Relevant to claim No.
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	rieserant to Galitt 140.
	DATABASE WPI Section Ch, Week 198311 Derwent Publications Ltd., London, GB; Class D25, AN 1983-26638K XP002139808 & JP 58 021497 A (LION CORP), 8 February 1983 (1983-02-08) abstract	1,5-7,9
	US 4 265 781 A (GROSS WILLIAM S ET AL) 5 May 1981 (1981-05-05) the whole document	1,5-7
4	GB 2 168 377 A (PROCTER & GAMBLE) 18 June 1986 (1986-06-18) page 1, line 5 - line 20 page 4, line 31 - line 55; claims; example	1,2,4,9,
A	EP 0 344 909 A (COLGATE PALMOLIVE CO) 6 December 1989 (1989-12-06) page 9, line 43 -page 10, line 3; claims	1,2,4,6, 7,9
A	DATABASE WPI Section Ch, Week 199008 Derwent Publications Ltd., London, GB; Class D25, AN 1990-056506 XP002139809 ANONYMOUS: "Cellulose fibre - for use in detergent compsns. to prevent deposition on laundered fabrics" abstract & RESEARCH DISCLOSURE, vol. 309, no. 040, 10 January 1990 (1990-01-10), Emsworth, GB	1,12
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inte. mai Application No PCT/US 00/03521

Patent document cited in search report		Publication date		atent family nember(s)	Publication date	
GB 1514264	A	14-06-1978	LU BE DE FR IT NL	70752 A 832537 A 2536594 A 2282468 A 1041915 B 7509797 A	19-08-1976 19-02-1976 04-03-1976 19-03-1976 10-01-1980 23-02-1976	
EP 0635569	Α	25-01-1995	NONE			
JP 58021497	Α	08-02-1983	NONE			
US 4265781	Α	05-05-1981	NONE			
GB 2168377	Α	18-06-1986	NONE			
EP 0344909	А	06-12-1989	US AU BR DK JP MX NZ PH ZA	4889652 A 620867 B 3394889 A 8902066 A 214889 A 2064200 A 163648 B 228902 A 26193 A 8903144 A	26-12-1989 27-02-1992 02-11-1989 05-12-1989 03-11-1989 05-03-1990 10-06-1992 26-03-1991 18-03-1992 28-12-1990	



### PCT

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or agen	t's file reference		s	e Notification of	Transmittal of Internation	onai
7419/JB			FOR FURTHER AC	CTION P	eliminary Examir	nation Report (Form PC	T/IPEA/416)
Internation	al applic	ation No.	International filing date (	day/month/yea	r) Priorit	y date (day/month/year	r)
PCT/US	00/035	21	09/02/2000		10/0	2/1999	
International C11D17/		t Classification (IPC) or na	tional classification and IPC	2			
Applicant							
THE PRO	OCTE	R & GAMBLE COMP	ANY et al.				
			ination report has been according to Article 36.	prepared by	this Internation	al Preliminary Exam	nining Authority
2. This I	REPOF	T consists of a total of	7 sheets, including this	cover shee			
b (s	een an see Ru	ended and are the bas	d by ANNEXES, i.e. she sis for this report and/or 07 of the Administrative sheets.	sheets conta	ining rectificati	ons made before thi	
3. This r	·	ontains indications rela	ating to the following iter	ns:			
II		Priority					
III		Non-establishment of c	pinion with regard to no	velty, invent	ve step and inc	dustrial applicability	
IV		ack of unity of invention	on				
V			nder Article 35(2) with re ons suporting such state		elty, inventive s	tep or industrial app	licability;
VI	_	Certain documents cite					
VII	⊠ (	Certain defects in the in	nternational application				
VIII	⊠ (	Certain observations o	n the international applic	cation			
Date of sub	mission	of the demand		Date of com	eletion of this rep	ort	
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preliminary	Europ D-802 Tel. +4	ng authority: ean Patent Office 98 Munich 19 89 2399 - 0 Tx: 523650	6 epmu d	Giese, H-	1		The state of the s
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/03521

I. Basıs	T th	ie repor	τ
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1.	res <sub>i</sub> the	his report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in esponse to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to be report since they do not contain amendments (Rules 70.16 and 70.17).):    Contain the second of the sec							
	1-10	01	as originally filed						
	Cla	ims, No.:							
	1-12	2	as originally filed						
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.						
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:						
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of pu	blication of the international application (under Rule 48.3(b)).						
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule						
3.			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:						
		contained in the int	ternational application in written form.						
		filed together with	the international application in computer readable form.						
		furnished subsequ	ently to this Authority in written form.						
		furnished subsequ	ently to this Authority in computer readable form.						
			the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.						
		The statement that listing has been full	the information recorded in computer readable form is identical to the written sequence nished.						
4.	The	amendments have	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.			en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):						



International application No. PCT/US00/03521

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 8

No:

Claims 1-7,9-12

Inventive step (IS)

Yes:

Claims 1-12 if novel

No:

Claims -

Industrial applicability (IA)

Yes:

Claims 1-12

No:

Claims -

- 2. Citations and explanations see separate sheet
- VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

#### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet



**EXAMINATION REPORT - SEPARATE SHEET** 

#### Reasoned statement under Article 35(2) with regard to novelty, Re Item V inventive step or industrial applicability; citations and explanations supporting such statement

#### **Cited documents** 1.

The following documents (D) are referred to in this communication:

D1: GB-A-1 514 264 D2: EP-A-0 635 569

D3: JP-A-58021497 (Derwent Abstract)

D4: GB-A-2 168 377

Novelty (Article 33(2) PCT) 2.

2.1. Document D1 (see p. 2, lines 63-72, page 4, lines 17-43, examples) discloses the incorporation of a density reducing phosphate ester into a particulate detergent solid which does not comprise enzymes.

Document D2 discloses (see page 3, line 39 to page 5, line 10; examples, claims 1-8) a particulate compositions having no enzymes and comprising carrier material and silica (Sipernat® D17) which is present neither in the form of microspheres nor in cavity-form nor in pore-form.

Document D3 (see abstract) discloses a fine powder additive having a low density for detergent compositions having no enzymes.

Document D4 (see page 1, lines 5-19, page 4, lines 33-55, example, claims) discloses density reducing glass microspheres together with non-enzyme detergent ingredients to form a particulate solid for detergent compositions.

- 2.2. With respect to documents D1, D3 or D4 the claims 1 to 7 are not novel (Article 33(2) PCT).
- 2.3. It should be stressed that for sake of examining neither the technical problem to be soloved nor the perferred embodiements of the claims have not been



considered because they are considered as not limiting the claims in any manner.

- 2.4. Prior art documents (D1, D2, D3 or D4) do not disclose products comprising instructions together with detergent compositions. Therefore, claim 8 appears to be novel (Article 33(2) PCT).
- 2.5. Independent claims 9 to 12 of the present application describe a method for laundring fabrics and several methods which define that stabilizing is achieved by adding the particulate solid to the liquid laundry detergent composition. A method for laundering fabrics according to independent claim 9 is revealed eg. in D2 (p. 10, l. 6-9). The methods as defined in cliams 10-12 describe stabilizing methods which are disclosed explicitly of implicitly in prior art document D4 which describes the advantages of using low density components (see p. 1, l. 5-19). Thus, claims 9 to 12 are not novel (Article 33(2) PCT).

### 3. Inventive Step (Article 33(3) PCT)

The technical problem to be solved by the present invention was to stably suspend and/or incorporate detergent ingredients in the form of solid particulates into laundry detergent compositions (see page 3, lines 18-31 and page 4, lines1-11). The proposed solution is to prepare a detergent composition comprising particulate solid density-reducing components that reduce the tendency of particulate solids to sediment and/or settle out of liquid laundry detergent compositions (see page 4, §1, 2).

None of the prior art douments cited in the international search report in the field of laundry detergent compositions (in particular D1, D2, D3) deal with the same technical problem and cannot be combined in a reasonable way to arrive at the proposed solution of the present application. Document D4 relates to thixotropic liquid dishwashing detergent compositions which belong to another technical field and the skilled man in the art would not consider.

After the claims has been become novel over cited documents, the claims of the present application will be considered inventive (Article 33(3) PCT).

# INTERNATIONAL PRELIMINARY International application No. PCT/US00/03521 EXAMINATION REPORT - SEPARATE SHEET

Industrial Applicability (Article 33(4) PCT)
 The claimed invention appears to be industrial applicable in the fields of detergents and therefore present application meets the requirements of Article 33(4) PCT).

#### Re Item VII Certain defects in the international application

- 1. As required by Rule 5.1(a)(ii) PCT, it is appropriate to identify documents D1, D2 and D3 and to discuss the relevant background art disclosed therein briefly (see also the Guidelines II, 4.4 PCT).
- 2. The application numbers and internal case numbers cited in the description (pages 20, 54, 81, 82, 83, 84, 93) cannot be found so easily as the corresponding publication numbers.
- 3. The statements (see page 6, 15, 16, 19, 20, 22, 38, 45, 58, 59, 100) that cited documents are incorporated merely be referred thereto does not permit the extension of the present disclosure to be cleary determined (see the Guidelines II, 4.17 PCT).

#### Re Item VIII Certain observations on the international application

- 1. The claims do not meet the clarity requirements of Article 6 PCT.

  The terms "solid density-reducing component" and "non-enzyme detergent ingredients" obscure the scope of the claim 1, since they are very broad and it is not clear which compounds are meant (Article 6 PCT, the Guidelines III, 4.3 PCT).
- 2. The feature "preferably selected from the group consisting of non-bleaching agent" of claim 1 has been omitted from the description. Its presence in the description is necessary to provide support for the claim as required by Article 6 PCT.

- 3. Claim 3 does not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not defined. The claims attempt to define the subject-matter ("capable of expanding ... such that the microsphere's volume increases") in terms of the result to be achieved. Such a definition is only allowable under the conditions elaborated in the Guidelines III, 4.7 PCT.
- 4. The number of independent method claims does not comply with Article 6 and Rule 6.1 (a)(b) PCT (the Guidelines III, 3.3 and 5 PCT), since more than one independent claim of the same category should be avoided. Present independent claims 10 to 12 appear to relate basically to the method of stabilizing the laundry composition.
- 5. The gel form as defined in claim 7 appears not to be supported correctly by the description on page 28, lines 14-27 (Article 6 PCT). From that passage of the description it is not clear whether the anionic surfactant component ("a)") is a low density filler particulate and "one or more of the following ingredients" ("b)") are particulate solids.
  - The same applies to the non-aqueous liquid detergent composition of claim 7 and contrary to that page 12, lines 10-19.
- 6. The feature "non-enzyme detergent composition" is not consistent with the fact that present description pages 69-90 explicitly disclose enzymes as ingredients.
- 7. The feature "non-bleaching agents" is not consistent with the feature "bleaching agents" of claim 5 and description pages 56-69.

### FATENT COOPERATION TREA.

#### From the INTERNATIONAL BUREAU

	From the INTERNATIONAL BUREAU
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NOTIFICATION OF ELECTION  (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year)	h
12 September 2000 (12.09.00)	in its capacity as elected Office
International application No.	Applicant's or agent's file reference
PCT/US00/03521	7419/JB
International filing date (day/month/year)	Priority date (day/month/year)
09 February 2000 (09.02.00)	10 February 1999 (10.02.99)
Applicant	
BROECKX, Walter, August, Maria et al	
1. The designated Office is hereby notified of its election made.    X   in the demand filed with the International Preliminary   17 July 2000 (	r Examining Authority on: 17.07.00)  national Bureau on:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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